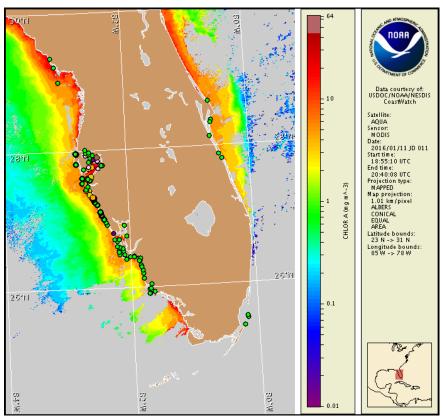


Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida Thursday, 14 January 2016 NOAA National Ocean Service NOAA Satellite and Information Service NOAA National Weather Service

Last bulletin: Monday, January 11, 2016



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from January 4 to 12: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus

Conditions Report

Karenia brevis (commonly known as Florida red tide) ranges from not present to high concentrations along the coast of southwest Florida, and is not present in the Florida Keys. *K. brevis* concentrations are patchy in nature and levels of respiratory irritation will vary locally based upon nearby bloom concentrations, ocean currents, and wind speed and direction. The highest level of potential respiratory irritation forecast for Thursday, January 14 through Tuesday, January 19 is listed below:

County Region: Forecast (Duration) **Northern Pinellas:** Very Low (Th-Tu)

Northern Pinellas, bay regions: Low (Th-Tu) Northern Pinellas, upper bay regions: Low (Th-Tu)

Southern Pinellas: Very Low (Th-Tu)

Southern Pinellas, bay regions: Moderate (Th-Tu) **Northern Manatee, bay regions:** Moderate (Th-Tu) **Southern Manatee:** Very Low (Th, M-Tu), Low (F-Su) **Southern Manatee, bay regions:** Moderate (Th-Tu)

Northern Sarasota: Very Low (Th, M-Tu), Moderate (F-Su)

Northern Sarasota, bay regions: Moderate (Th-Tu) Southern Sarasota: Very Low (Th, M-Tu), Low (F-Su) Southern Charlotte, bay regions: Very Low (Th-Tu) All Other SWFL County Regions: None expected (Th-Tu)

All Other NWFL County to Louisiana Parish Regions: Visit http://tidesandcur-

rents.noaa.gov/hab/#nwfl

Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations. Health information, from the Florida Department of Health and other agencies, is available at http://tidesandcurrents.noaa.gov/hab/hab_health_info.html. Dead fish have been reported in Pinellas County.

Analysis

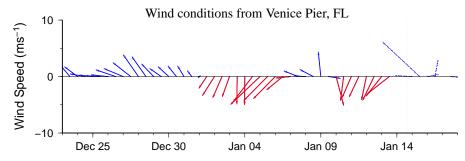
Due to the upcoming federal holiday, the next bulletin will be issued on Tuesday, January 19.

Recent samples collected along- and offshore southwest Florida indicate background to 'high' *Karenia brevis* concentrations from Pinellas to southern Charlotte County, with the highest concentrations present along- and inshore Pinellas to northern Sarasota counties (FWRI, SCHD, CCENRD; 1/4-12). Dead fish have been reported at South Pasadena in Pinellas County (FWRI; 1/11). Detailed sample information and a summary of impacts can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus.

In recent ensemble imagery (MODIS Aqua, 1/11) patches of elevated to high chlorophyll (3-11 μ g/L) with the optical characteristics of *K. brevis* are present alongshore regions of Pinellas to Sarasota counties.

Variable winds forecasted over the next several days will decrease the potential for transport of surface *K. brevis* concentrations. Derner, Davis

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: http://tidesandcurrents.noaa.gov/hab/bulletins.html

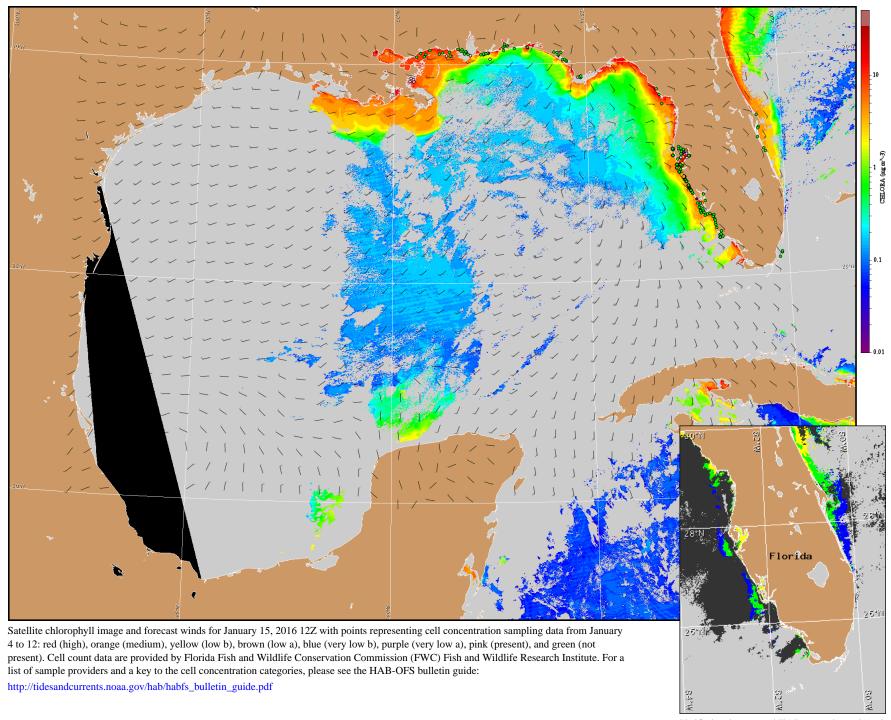


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

-2-

Wind Analysis

Englewood to Tarpon Springs (Venice): East to southeast winds (5-25kn, 3-13m/s) today. South winds (30+kn, 15+m/s) Friday becoming southwest (20-25kn, 10-13m/s) Friday afternoon. West winds (5-15kn, 3-8m/s) Friday night through Saturday becoming southwest (5kn, 3m/s) Saturday afternoon. South to southwest winds (5-15kn, 3-8m/s) Saturday night. Northwest winds (20kn, 10m/s) Sunday becoming north (10-15kn, 5-8m/s) Sunday afternoon through Monday.



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).